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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/510,302

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Fransiscus Gerardus Coenradus Verweg

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BRIARCLIFF MANOR, NY 10510

EXAMINER

GETACHEW, ABIY

ART UNIT

PAPER NUMBER

2841

MAIL DATE

DELIVERY MODE

01/25/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/510,302	Applicant(s) VERWEG ET AL.	
	Examiner Abiy Getachew	Art Unit 2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

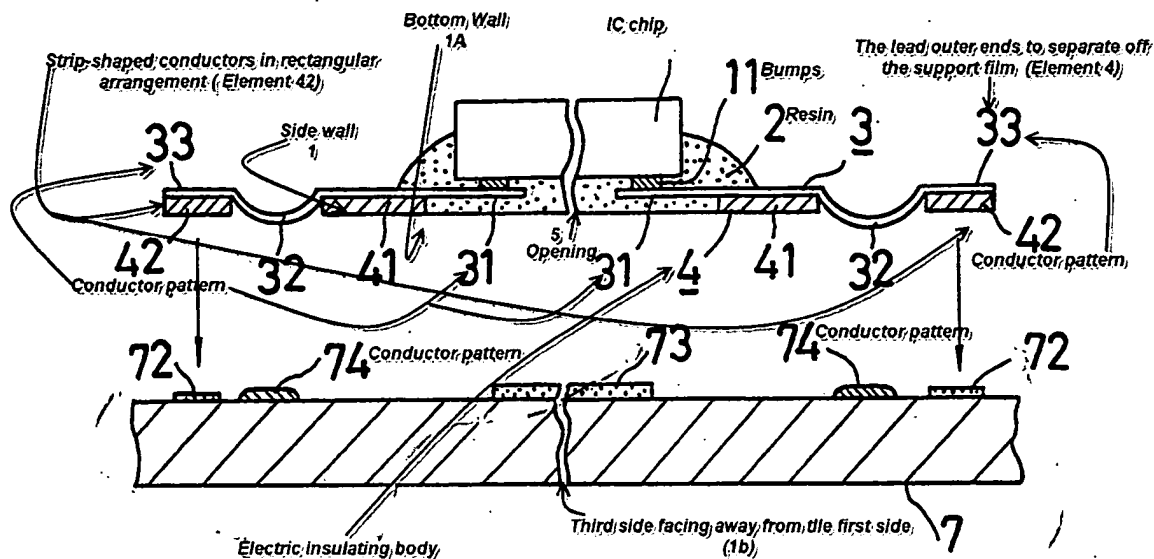
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-9 rejected under 35 U.S.C. 102(b) as being anticipated by Kithara (5440452).

Regarding claim 1 Kitahara discloses, an electrically insulating body (Figure 16 Element 4, which comprising a polyimide substrate, glass-epoxy substrate or the like) provided with a conductor pattern (figure 16 element 31), which insulating body (Figure 16 Element 4) is provided with a first and a second side between which an enclosed angle is present of substantially less than 180 degree (See figure 16, i.e. With this surface mount component, the lead (3) which is long is folded over to a circular-arc form through an angle of at least 180 degrees), wherein the conductor pattern (Figure 16 Element 31) extends over the first and the second side (See figure 16 element 31 at 180 degree angle) and comprises a number of strip-shaped conductors provided (See Figure 28 element 32) each with at least one region of larger dimensions than the width of the strip-shaped conductors, which regions are suitable for electrical contacting of electronic elements to be assembled together with the insulating body (Figure 16 Element 31) said body acting as a carrier of the conductor pattern (42) and as a carrier of the elements (Figure 16 Element 40).

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Regarding claim 2, Kitahara discloses, an electrically insulating body (4) characterized in that a cavity or opening (See figure 16 i.e. the sectional view showing how to surface-mount the component on a wiring board with cavity (Figure Element 5) is present in the body)

Regarding claim 3, Kitahara discloses, characterized in that the cavity (Figure in claim 1 Element 5) has a bottom (See Figure in claim 1, Element 1A) and a side (See Figure in claim 1, Element 1A) wall, the conductor pattern (Figure 16 element 31) extending over the side wall and optionally over the bottom of the cavity (See Figure in claim 1 Element 5), while a connection region for electrical contacting of the electronic element (Figure in claim show the IC) which connected to a plurality of leads) is present in the cavity (Figure Element 5).

Regarding claim 4, Kitahara discloses characterized in that the opening (Figure 16 Element 5) extends from the first side (Figure in claim 1 Element 1) through to a third side (Figure in claim 1 Element 1B) facing away from the first side (Figure in claim 1

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Element 1), such that a first component (Figure in claim 1, the IC chip) can be placed at the first side (Figure in claim 1 Element 1) and a second component can be placed at the third side (Figure in claim 1 Element 1B), which components together with the interposed body define an electronic element (Figure in claim 1, the IC chip) . (See figure in claim 1 for sectional view showing how to surface-mount the component on a wiring board)

Regarding claim 5, Kitahara discloses, characterized in that at least a number of the strip-shaped conductors (Figure in claim 1 Element 33) is provided with respective regions at respective ends (See the figure in claim 1) which regions act as connection regions and are located in a closed, preferably rectangular arrangement. (See figure 16)

Regarding claim 6, Kitahara discloses, characterized in that at the body has a third side (Figure in claim 1 Element 1B) which faces away from the first side (Figure in claim 1 Element 1), and the conductor patten (Figure in claim 1 Element 33) extends from the first side (Figure in claim 1 Element 1) over the second side (Figure in claim 1 Element 1A) onto the third side (Figure in claim 1 Element 1B).

Regarding claim 7, Kitahara discloses, characterized in that at least a number of the strip-shaped conductors (Figure in claim 1 Element 33) have respective strip-shaped ends (Figure in claim 1 Element 42), said ends being at least substantially oriented in parallel and present at the first side (Figure in claim 1 Element 1).

Regarding claim 8, Kitahara discloses, characterized in that the strip-shaped conductors have a width of between 10 and 500 gm. [Column 15 paragraph 17 lines 68-70]

Regarding claim 9, Kitahara discloses, an electronic device (Figure 16) provided with an electronic element (Figure 16 Element 1) and with an electrically insulating body (Figure 16 Element 4) with a conductor pattern (Figure 16 Element 33) as claimed in one of the above preceding claims.

Regarding claim 13, Kitahara discloses, characterized in that at least a number of the strip-shaped conductors (Figure 16 Element 1) is provided with respective regions at respective ends (Figure in claim 1 Element 42),, which regions act as connection regions and are located in a closed, preferably rectangular arrangement. (See figure 16)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10-12 rejected under 35 U.S.C. 103(a) as being unpatentable over Kithara (5,440,452) in view of Kato (6,486,412 B2)

Kithara discloses an electrically insulating body (Figure 16 Element 4) provided with a conductor pattern (figure 16 element 31), which insulating body (Figure 16 Element 4) is provided with a first and a second side between which an enclosed angle is present of substantially less than 180 degree (See figure 35, i.e. With this surface mount component, the lead (3) which is long is folded over to a circular-arc form through an angle of at least 180 degrees. The angle could be less than or equal to 180 degree), wherein the conductor pattern (Figure 16 Element 31) extends over the first and the

second side and comprises a number of strip-shaped conductors provided (See Figure 28 element 32) each with at least one region of larger dimensions than the width of the strip-shaped conductors, which regions are suitable for electrical contacting of electronic elements to be assembled together with the insulating body (Figure 16 Element 31) said body acting as a carrier of the conductor pattern (Figure 16 Element 42) and as a carrier of the elements (Figure 16 Element 42).

Kitahara defining camera [Column 11 paragraph 7 lines 56-64]. Kitahara and Kato are analogous art because they are from similar problem solving area.

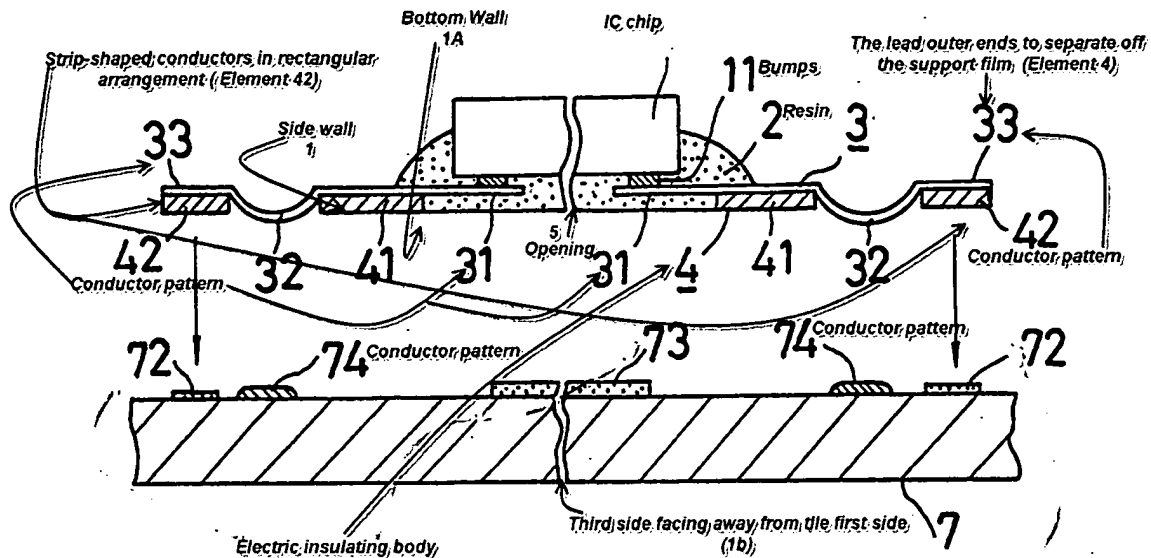
At the time of the invention, it would have been obvious to a person with ordinary skill in the art to mount a mount optical lens to the device of the invention.

Therefore, it would have been obvious to combine Kitahara with Kato to obtain the invention as specified in claims 12, 11, and 12)

Response to Amendment

First, Applicant argues that "Nowhere does Kitahara teach or suggest a recessed conductor pattern in a first and second side of an insulating body as recited in claim 1"

In response to the above argument, Applicant's attention respectfully directed to the figure below. Examiners interpretation of recessed conductor pattern is as it depicted in figure below, a mounting method requiring a cutout be made into the finished wall or other surface. Recessed equipment will be recessed into the wall so the mounted object protrudes little from the face of the wall.



Second, Applicant argues "Examiner points to element 4 of Fig. 16 of Kitahara as the claimed "insulating body" of the present application. The Office Action does not, however, point to any portion of element 4 of Fig. 16 of Kitahara in which an "insulating body" has a "first and second side between which an enclosed angle is present of substantially less than 180 degrees," as claimed by the present application"

In response to the above argument Applicant's attention respectfully directed to figure 16, i.e. With this surface mount component, the lead (3) which is long is folded over to a circular-arc form through an angle of at least 180 degrees), wherein the conductor pattern (Figure 16 Element 31) extends over the first and the second side (See figure 16 element 31 at 180 degree angle in two ends)

Third, Applicant argue, "lead 3 is and is not equivalent to the claimed "insulating body" of the present application"

In response to the above argument Kitahara teaches that the leads are interconnected by an insulating frame at their outer ends. Each of the leads is provided in the vicinity of the portion thereof joined to the frame with an outer lead portion to be electrically connected to a wiring board. Applicant's attention respectfully directed to (Figure 16 Element 4, which comprising a polyimide substrate, glass-epoxy substrate or the like)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abiy Getachew whose telephone number is (571) 272 6932. The examiner can normally be reached on Monday to Friday 8Am to 4:30Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272 2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



TUAN T. DINH
PRIMARY EXAMINER

Abiy Getachew
Examiner
Art Unit 2841

A.G.
January 4, 2008

1/22/08